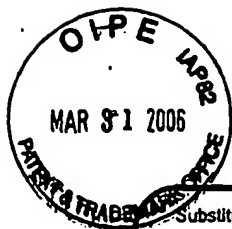


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 10

Complete If Known

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
LL		2,972,140		2/14/1961	Hirsch	
		3,157,853		11/17/1964	Hirsch	
		3,220,121		11/30/1965	Cutler	
		3,497,668		2/24/1970	Hirsch	
		3,517,448		6/30/1970	Corlyon et al.	
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		3,903,614		9/9/1975	Diamond et al	
		3,911,416		10/7/1995	Feder	
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		4,262,549		4/21/1981	Schwellenbach	
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		4,599,070		7/8/1986	Hladky et al.	
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		4,891,784		1/2/1990	McIntosh	
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		4,930,770		6/5/1990	Baker	
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		5,019,761		5/28/1991	Kraft	
		5,022,384		6/11/1991	Freels	

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**INFORMATION DISCLOSURE
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Sheet **2** of **10****Complete If Known**

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

U.S. PATENT DOCUMENTS					
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		Number Kind Code ² (if known)			
LL		5,022,407	6/11/1991	Horch et al.	
		5,035,242	7/30/1991	Franklin	
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		5,451,924	09/1995	Massimino et al.	
		5,468,213	11/14/1995	Hogan	

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Sheet **3** of **10****Complete If Known**

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LL		5,506,605	04/1998	Paley	
		5,542,672	08/1998	Meredith	
		5,547,382	8/20/1998	Yamasaki	
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LL		5,889,672	03/1999	Schuler et al.	

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Sheet 4 of 10**Complete if Known**

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LL		5,897,437	04/1999	Nishiumi et al.	
		5,912,661	06/1999	Siddiqui	
		5,914,705	08/1999	Johnson et al.	
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		6,422,941	7/23/2002	Thomer et al.	
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LL		6,583,487	05/2003	Martin et al.	

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Sheet 5 of 10**Complete If Known**

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
↓	LL	EP	0349086		1/3/1990	Stork Kwant B.V.	
		JP	H2-185278		7/19/1990	Taito Corporation	
		JP	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	
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	LL	WO	WO 00/03319		01/2000		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
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Sheet **6** of **10****Complete if Known**

Application Number	10758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
LL			SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. NPO-17851; JPL Case No. 7348, pp. 1-4, with 45 pages of attachments, 06/15/1989.				
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			MCAFFEE, "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, January 1988.				
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Examiner Signature	/Lun Lao/	Date Considered	06/15/2006
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**INFORMATION DISCLOSURE
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Sheet 7 of 10**Complete If Known**

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
LL			JACOBSEN et al., "High Performance, Dexterous Telerobotic Manipulator With Force Reflection," <i>Intervention/ROV '91 Conference & Exposition</i> , Hollywood, Florida, May 21-23, 1991.				
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LL			WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.				

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Sheet **8** of **10****Complete if Known**

Application Number	10/758,599
Filing Date	January 16, 2004
First Named Inventor	Danny Grant
Art Unit	2837
Examiner Name	
Attorney Docket Number	IMMR064/00 US

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ²	Number ⁴	Kind Code ³ (if known)			
LL			BLISS, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.				
			JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," <i>Armstrong Aerospace Medical Research Laboratory</i> , AAMRL-TR-90-039, August, 1990.				
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			OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," <i>Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95</i> , Seoul, Korea, 21-24 August 1995.				
			KACZMAREK et al., "Tactile Displays," <i>Virtual Environment Technologies</i> , Chap. 9, pp. 349-414.				
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LL			YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992				

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LL			NOLL, "Man-Machine Tactile," <i>SID Journal</i> , July/August 1972 Issue.				
			ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.				
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LL			Dennerlein, Jack T. et al., "Vibrotactile Feedback for Industrial Telemanipulators," 6.sup.th Ann. Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems, ASME IMECE, Nov. 1997.				
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LL			Wiker, S. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," Proc. of Human Factors Society 35.sup.th Annual Meeting 1991, pp. 708-712.				

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